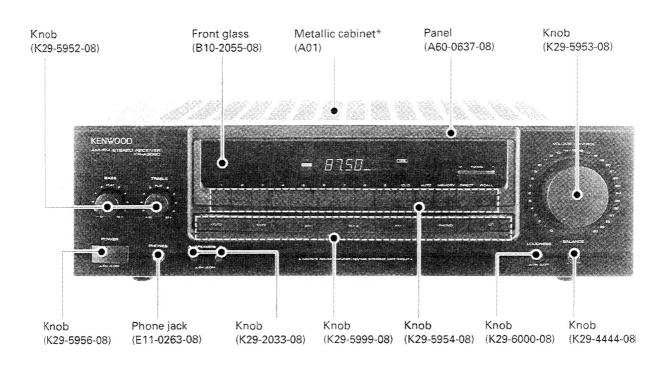
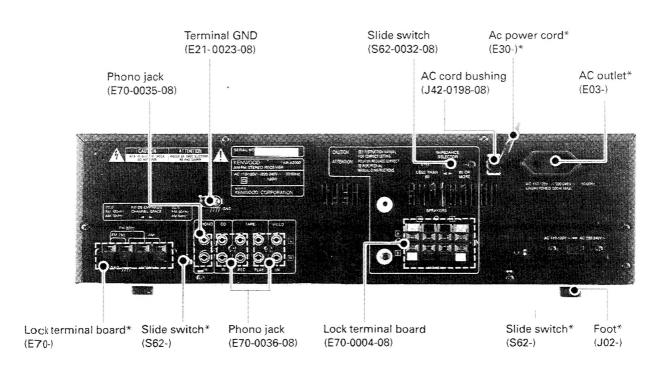
AM-FM STEREO RECEIVER

KR-A3060 SERVICE MANUAL

KENWOOD

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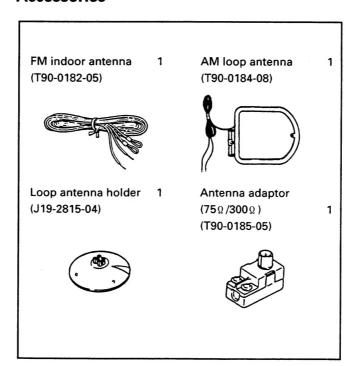
*Refer to parts list onprage 24

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WIRING DIAGRAM	9

PC BOARD	11
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EXPLODED VIEW	23
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SPECIFICATIONS	BACK COVER

Accessories



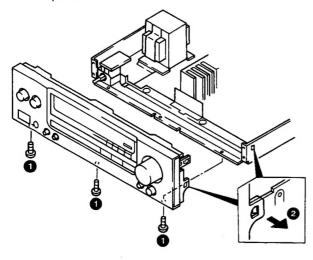
INSTRUCTIO	N MANUAL	TYPE
B60-1583-08	ENGLISH	K, X
B60-1584-08	ENG, FRE	Р
B60-1585-08	EN, FR, DU, NE, IT	E
B60-1586-08	ENG, CHI	М
B60-1681-08	SPANISH	R

DISASSEMBLY FOR REPAIR

Note: Remove the case before starting

Removing the front panel and sub-panel

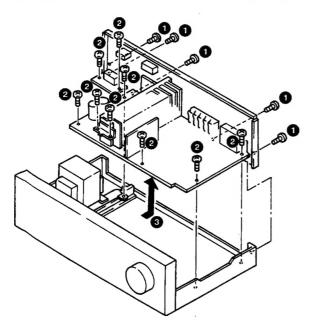
Remove the three screws **1** and two claws **2**, then remove the front panel.



Removing the main PC board

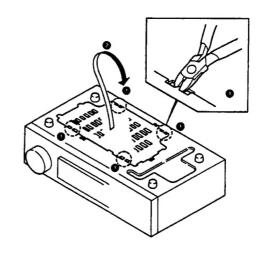
The main PC board can be removed even if the front panel and sub-panel have not been.

- 1. Remove the five screws **1** from the rear panel.
- 2. Remove the nine screws 2.
- 3. Remove the main PC board in the direction of arrow 3.



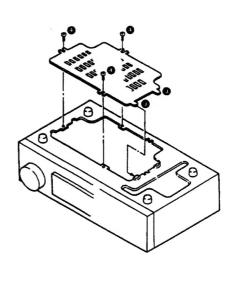
How to remove the repairing chassis

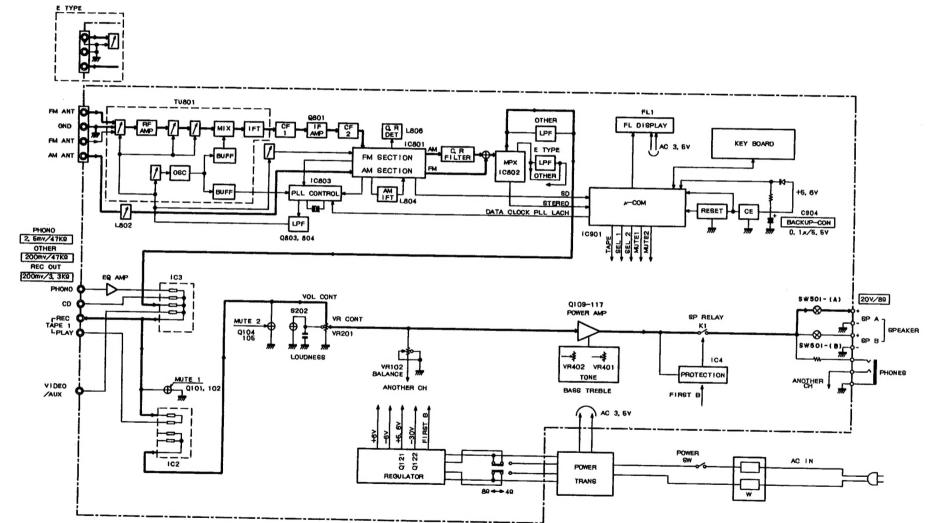
Cut the four parts of the repairing chassis.
 Remove the repairing chassis from main chassis.



After repair

- 2. Turn the repairing chassis 180 degrees in the arrow direction **2**.
- 3. Insert the two claws 3 into main chassis.
- 4. Lock to the main chassis by three screws(M3 × 6) 4.



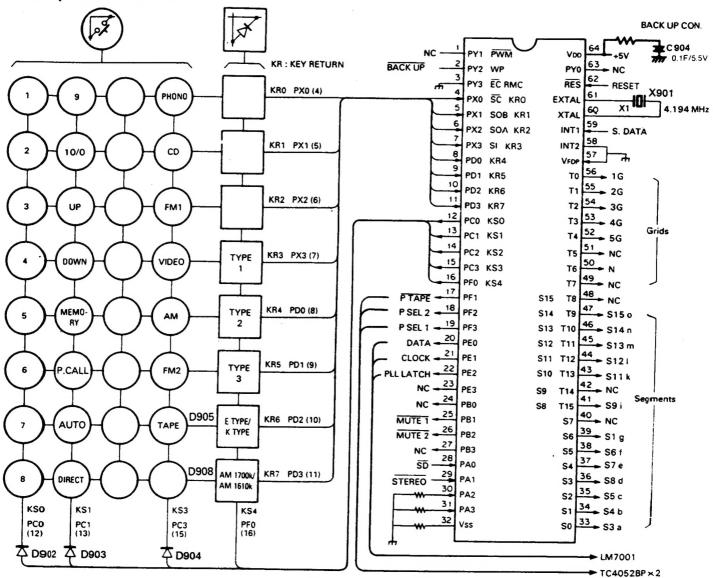


BLOCK DIAGRAM

CIRCUIT DESCRIPTION

1. CXP5016-531S: Receiver microprocessor(FRONT UNIT: IC901)

1-1. Key Matrix connections



1-2. Setting of destinations, models and specifications depending upon diode key matrix

The setting of destinations, models and specifications is made according to the initial set diode key matrix. In the following, "1"means "with diodes" and "0", "without diodes"

1) Model Set SW

Model set SW				Function					
TYPE	TYPE	TYPE	MODEL	TUNER	DOLBY	VOL.CONT	Switched	DEMOCON	
1	2	3		BAND	SURROUND	with Motor	VIDEO1, 2	REMOCON	
0	0	1	-	FM1→FM2→AM	Provided	Provided	Provided	Provided	
1	0	1	-	1	Not provided	1	Ť	1	
0	1	0	-	Ť	Î	Ť	Not provided	1	
0	0	0	KR-A3060	FM1, FM2, AM	1	Not provided	1	Not provided	

CIRCUIT DESCRIPTION

1-3. Initial Setting

1) Function initial setting

Last channel memory	FM : 87.5MHz
	AM(E): 531kHz
Tuning mode	Auto
Input selector	FM1
Muting	OFF
2) Microprocessor output port initial sett	ing
Any figure in () is a pin number.	
MUTE 1(25)	Н
MUTE 2 (26)	H

The initial setting is performed in a following event:

- 1. When backup memory data is destroyed when reset is applied to the microprocessor.
- 2. When the power cord is plugged in to the AC wall outlet while prossing the FM1 key.

1-4. Test Mode Setting

1) Method of entering the test mode

 While pressing the CD key, plug the power cord to the AC wall outlet. When the test mode is entered, the FL tube display all lights.

2) Method of canceling the test mode

- 1. Unplug the power cord from the AC wall outlet once.
- 2. Send the reset signal to the RESET pin or some other means to reset the microprocessor.

3) Contents of test mode

- When the test mode is entered, the FL tube display all lights. This all lighting continues unless the test mode is canceled.
- The test frequency is stored in memory for each preset channel.(For each frequency to be stored in memory, refer to its associated listing.)

1-5. Frequency memorized for each PRESET channel when the memory is cleared(Test frequency)

BAND	FI	M1	FI	M2	ı	M3
Destination	K	E	κ	E	K	E
1	87.5MHz	87.5MHz	87.5MHz	87.5MHz	530kHz	531kHz
2	89.1	89.1	87.5	87.5	630	630
3	90.0	90.0	87.5	87.5	990	990
4	92.0	92.0	87.5	87.5	1440	1440
5	94.0	94.0	87.5	87.5	1610	1602
6	98.0	98.0	87.5	87.5	1700*	531
7	100.1	100.1	87.5	87.5	530	531
8	102.0	102.0	87.5	87.5	530	531
9	106.0	106.0	87.5	87.5	530	531
10	108.0	108.0	87.5	87.5	530	531

^{*1700}kHz is set for WIDE only.

1-6. Destination set SW: E type/K type

Destination set SW	Desti- nation	Band	Reception frequency band	Channel space	Reference frequency
			87.5~108.0MHz	100kHz	50kHz
0	K	AM	530~1610kHz	10kHz	10kHz
		7141	530~1700kHz	10012	TUNTIZ
1	E	FM	87.5~108.0MHz	50kHz	50kHz
		AM	531~1602kHz	9kHz	9kHz

^{0:} Without diode

K type is described for reference.

1-7. Specification set SW: AM 1700k/AM 1610k With destination set SW at "0": Effective only for KTYPE

Specification set SW	AM reception frequency band
0	530~1610kHz
1	530~1700kHz

0 : Without diode

1: With diode(D908)

^{1:} With diode(D905 or Q902 ON state)

CIRCUT DESCRIPTION

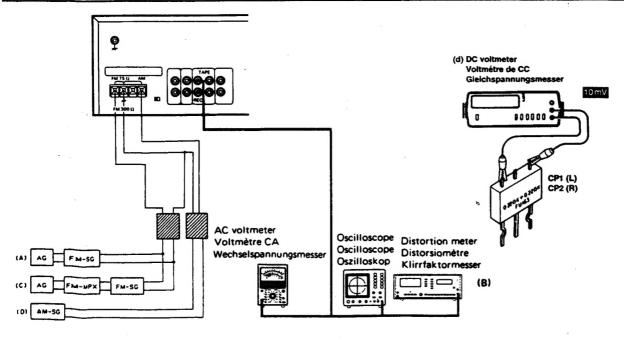
Pin No.	Pin name	1/0	Name	Function	
1	PY1	0	_	N,C.	
2	PY2	1	BACK UP	Backup (AC outlet off) detection.	High: Normal state Low: AC outlet off
				When the power is switched on, high is input. When low is input, the microprocessor stops clock generation an When the signal changed from low to high, the backup state cha	nd enters the backup state. Inges to the normal state.
3	RMC		-	GND.	
4~11	PX0~PX3 PD0~PD3		KRO-KR7	KEY RETURN signal input.	High: There is input. Low: There is no input.
12~16	PC0~PC3 PF0	0	KS0~KS4	KEY SCAN signal output. Normally high is output. Key scan is performed when KEY is ON.	
17	PF1	0	PTAPE	TC4052BP (selector IC) control. Tape monitor on/off control.	High: OFF Low: ON
18	PF2	0	PSEL2	TC4052BP (selector IC) control.	
19	PF3	0	PSEL1 (H9070)	TC4052BP (selector IC) control.	
20	PE0	0	DATA	LM7001(PLL IC) control serial data output. Data is latched on the rising edge of the clock.	
21	PE1	0	CLOCK	LM7001, control serial data transfer shift clock output. Data is la	
22	PE2	0	PLLLT	CE signal output to LM7001. When the signal is high, LM7001 is	s enabled.
23	PE3	0	_	N.C.	
24	PB0	0	_	N.C.	
25	PB1	0	MUTE 1	TAPE REC OUT mute control.	High: MUTE OFF & Low: MUTE ON
26	PB2	0	MUTE 2	LINE OUT mute control.	High: MUTE OFF Low: MUTE ON
27	PB3	0	_	N.C.	
28	PAO	1	SD	Tuner tuned detection.	High: NO SIGNAL Low: TUNED
29	PA1		STEREO	Tuner FM stereo detection.	High: MONO Low: Stereo
30	PA2	1/0	_	Unused pin.	
31	PA3	1/0	_	Unused pin.	
32	Vss	1=	GND	GND.	
33~47	S0~S14	0	Sa~So	Fluorescent display segment drive signal output.	
48~51	T8~T5	0	-	N.C.	
52~56	T4~T0	0	.G5~G1	Fluorescent display digit drive signal output.	
57	V _{FDP}	_	_	Unused pin. This pin and GND are shorted.	
58	INT2	1	_	Unused pin. This pin and GND are shorted.	
59	INT1	1	SDATA	This pin and serial data input pin 30 are shorted.	
60	XTAL	0	XTAL	Clock generation circuit output.	
61	EXTAL	1	EXTAL	Clock generation circuit input.	
62	RST	1	RESET	Reset signal input.	
63	PY0	0	_	N.C.	
64	V _{DD}	1_	V _{DG}	+5 V power supply.	

ADJUSTMENT

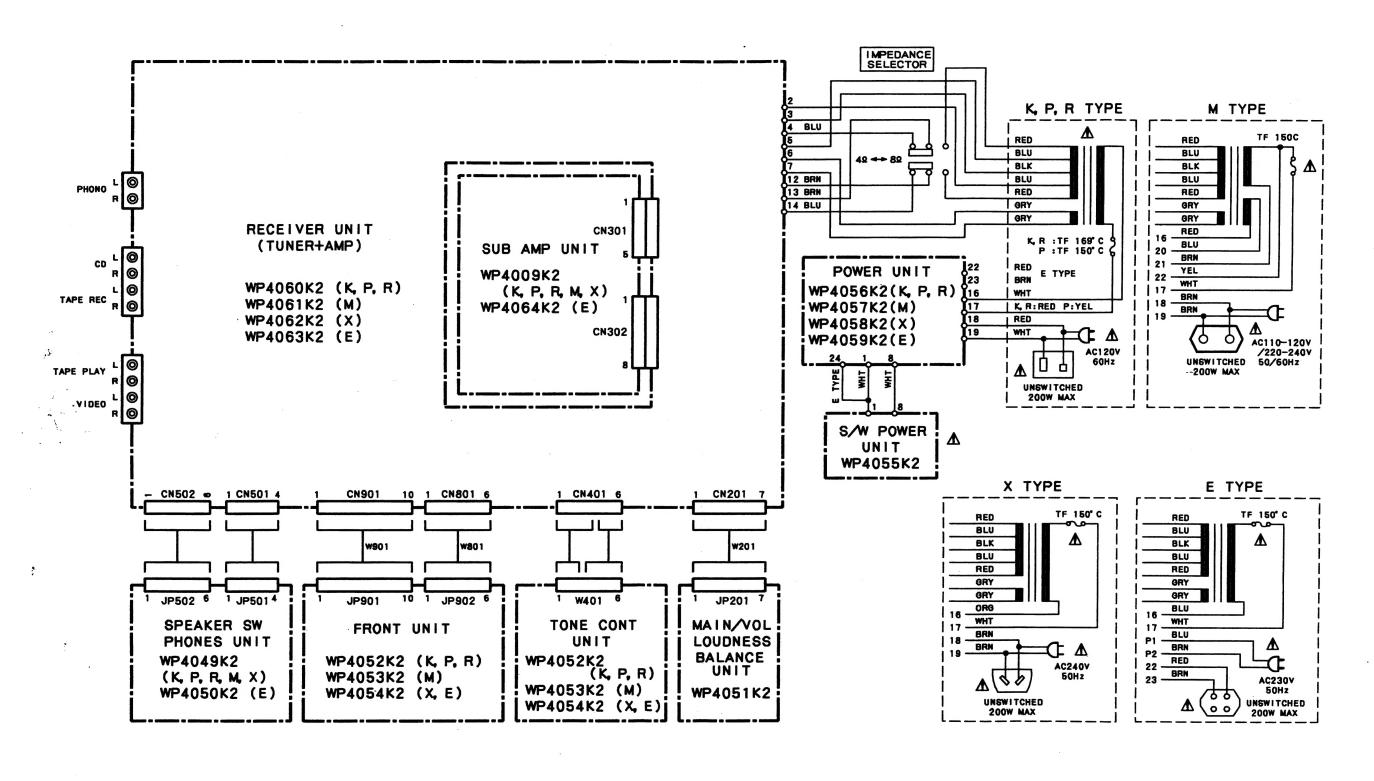
AM. Section: If alignment piont is "-", Confirm the value.

If not, replace the front end pack.

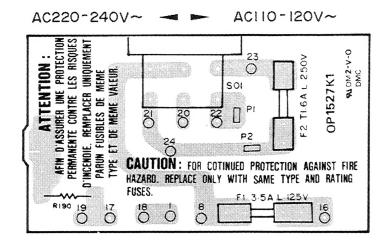
		INPUT	OUTPUT	TUNER	ALIGNMENT		
N	LTCu				POINTS	ALLON FOR	610
No.	ITEM	SETTINGS	SETTINGS	SETTINGS	PUINIS	ALIGN FOR	FIG.
FM	SECTION						
		(A)	Connect a DC				
		98.0MHz	voltmeter between	AUTO	L806		
1	DISCRIMINATOR	1kHz,±75kHz dev.	TP803 and TP804.	or MONO	(RECEIVER	OV	(a)
		60dBµ(ANT.input)	(RECEIVER UNIT)	98.0MHz	UNIT)		
		(A)	Connect a frequency				
~		98.0MHz	counter between	AUTO	VR802		
2	VC0	0 dev.	TP805 and TP806.	98.0MHz	(RECEIVER	19.00kHz	(9)
		60dBµ(ANT.input)	(RECEIVER UNIT)		UNIT)		
		(C)					
		98.0MHz				•	
3	DISTORTION	1kHz, ±68.25kHz dev.			IFT		
	(STEREO)	Selector:L or R	(B)	98.0MHz	(W02-)	Minimum distortion.	
		Pilot:±6.75kHz dev.				(L or R)	
		60dBµ(ANT.input)					
		(C)					
		98.0MHz					
4	SEPARATION	1kH2,±40kH2 dev.	(B)	AUTO	VR803	Minimum crosstalk	
	(E type only)	Pilot:6kHz dev.		98.0MHz	(RECEIVER	Minimum crosstalk	
	(1170 0111)	Selector:L or R			UNIT)		
		60dBµ(ANT.input)					
		(A)					
5	TUNING LEVEL	98.0MH2		AUTO	VR801	Adjust VR801 and	
ľ	Tomand BB1BB	0 dev	(B)	or MONO	(RECEIVER	stop at the point where	
		18dBµ(ANT.input)		98.0MHz	(TINU	FLT901(TUNED)goes on.	
AM	SECTION		AV		1		
		(D)			VR804	Adjust VR804 and	
(1)	TUNING LEVEL	1000(999)kHz	(B)	-	(RECEIVER	stop at the point where	1
``'	TOWING LEVEL	26dBµ(ANT.input)	(5)		UNIT)	FLT901(TUNED) goes on.	
AUI	OIO SECT					15144 (10.85) 8000 01.	
	3201		Connect a DC voltmeter		VR101(L)		T
<1>	IDLE CURRENT	_	across CP1(L)	Volume: 0	VR102(R)	10mV	(1)
`''	.DDD CORRERI		CP2(R)		(RECEIVER		"
			(RECEIVER UNIT)		UNIT		
		1	(RECEIVER UNII)		08117		

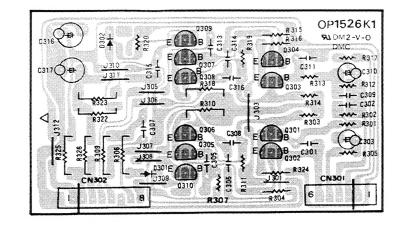


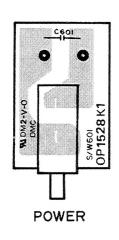
KR-A3060 KR-A3060 WIRING DIAGRAM

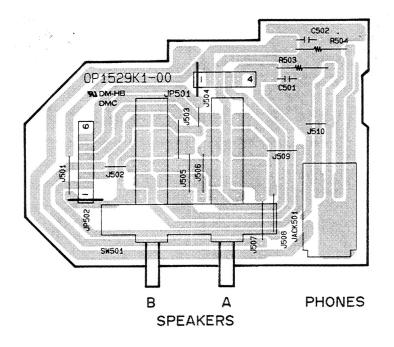


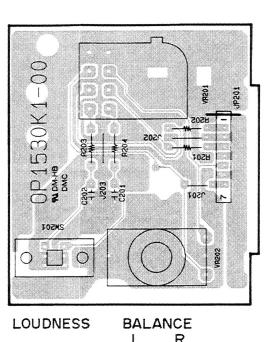
PC BOARD(Component Side View)

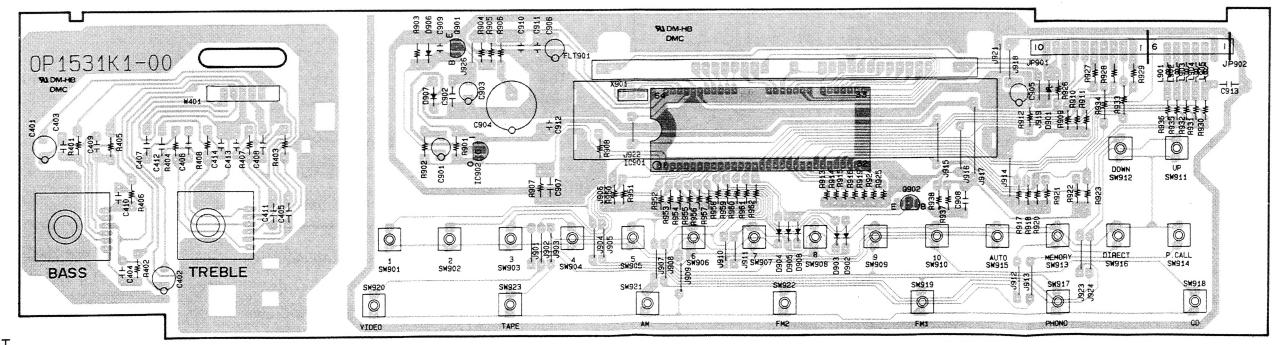




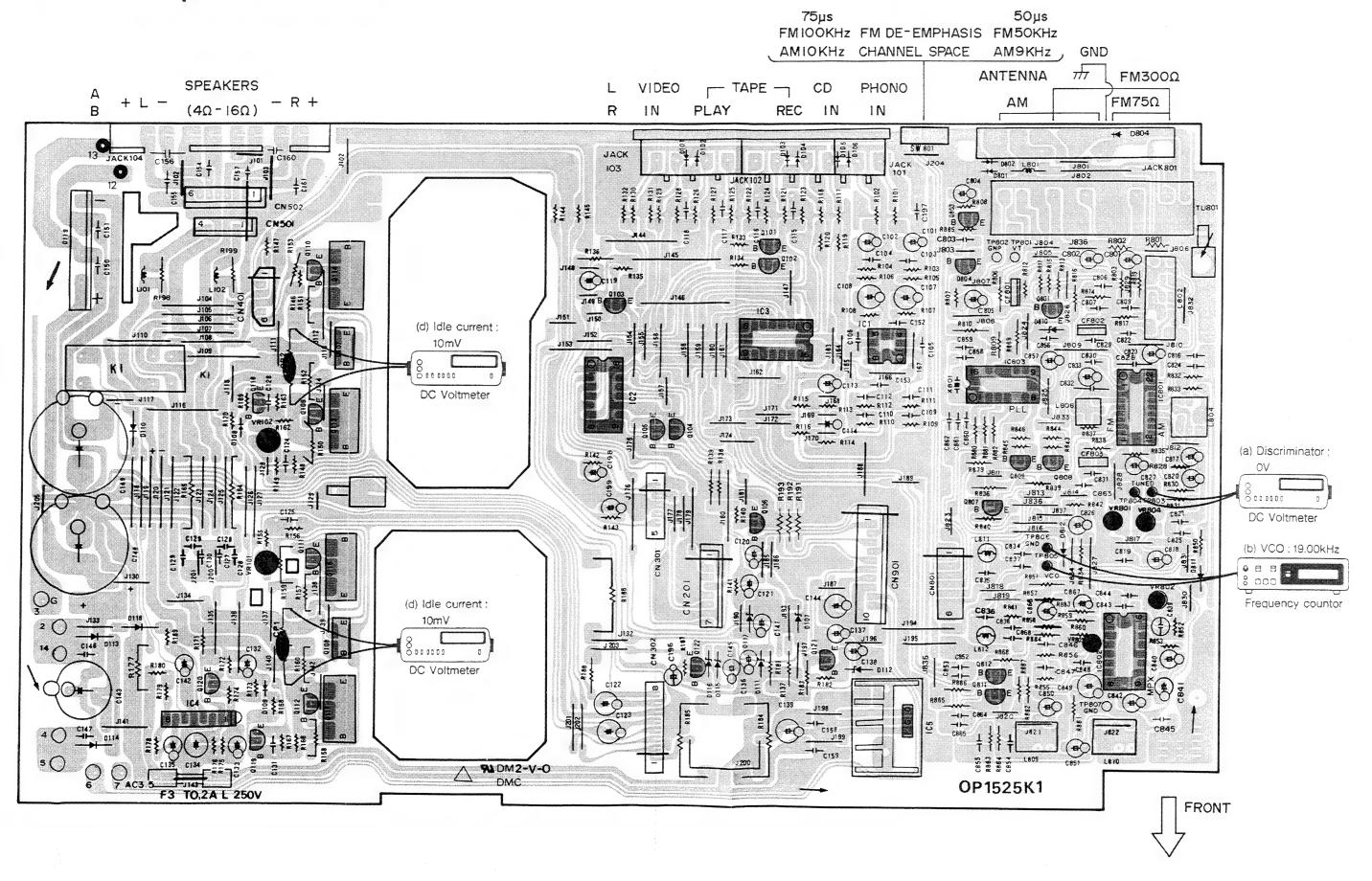


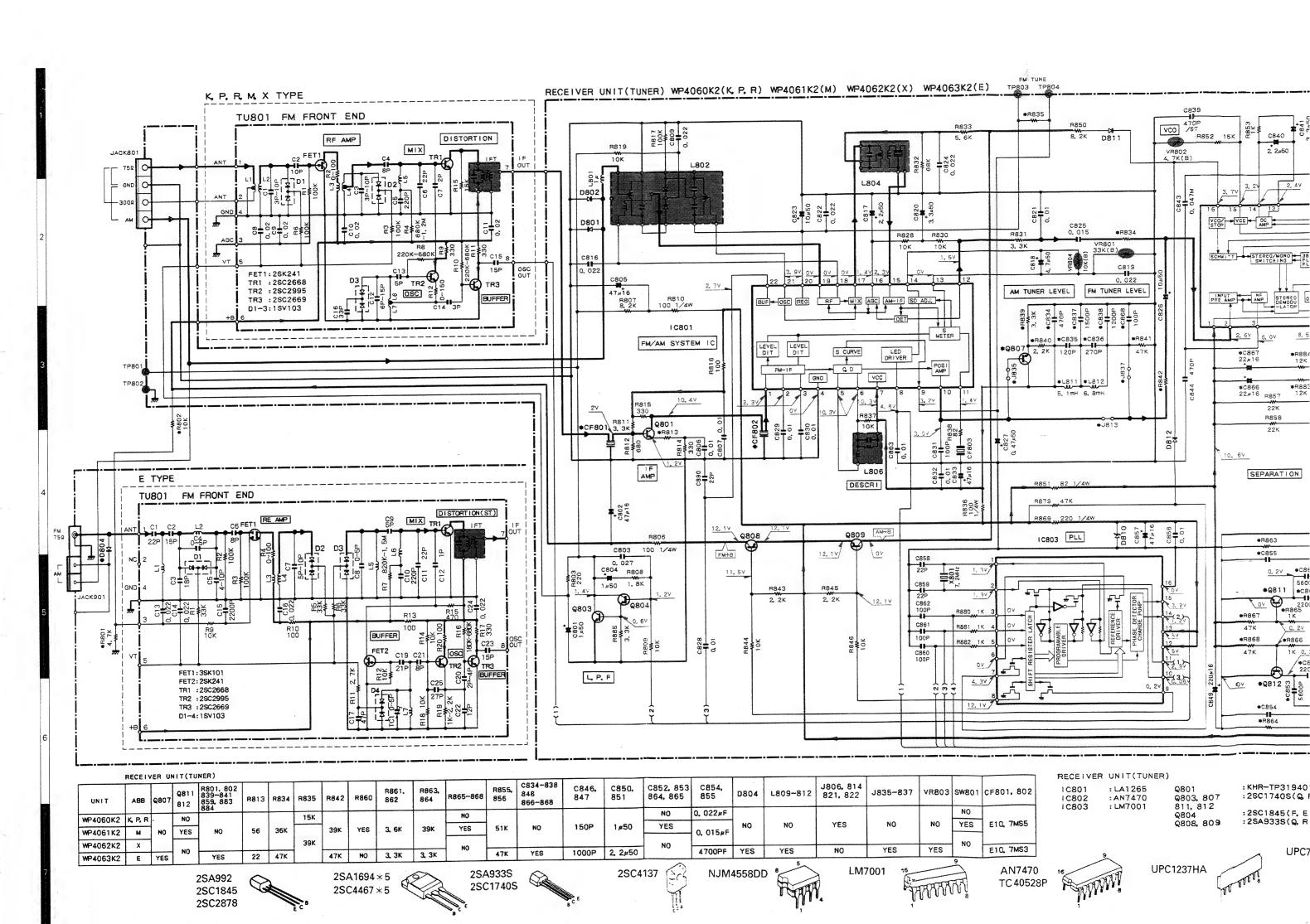


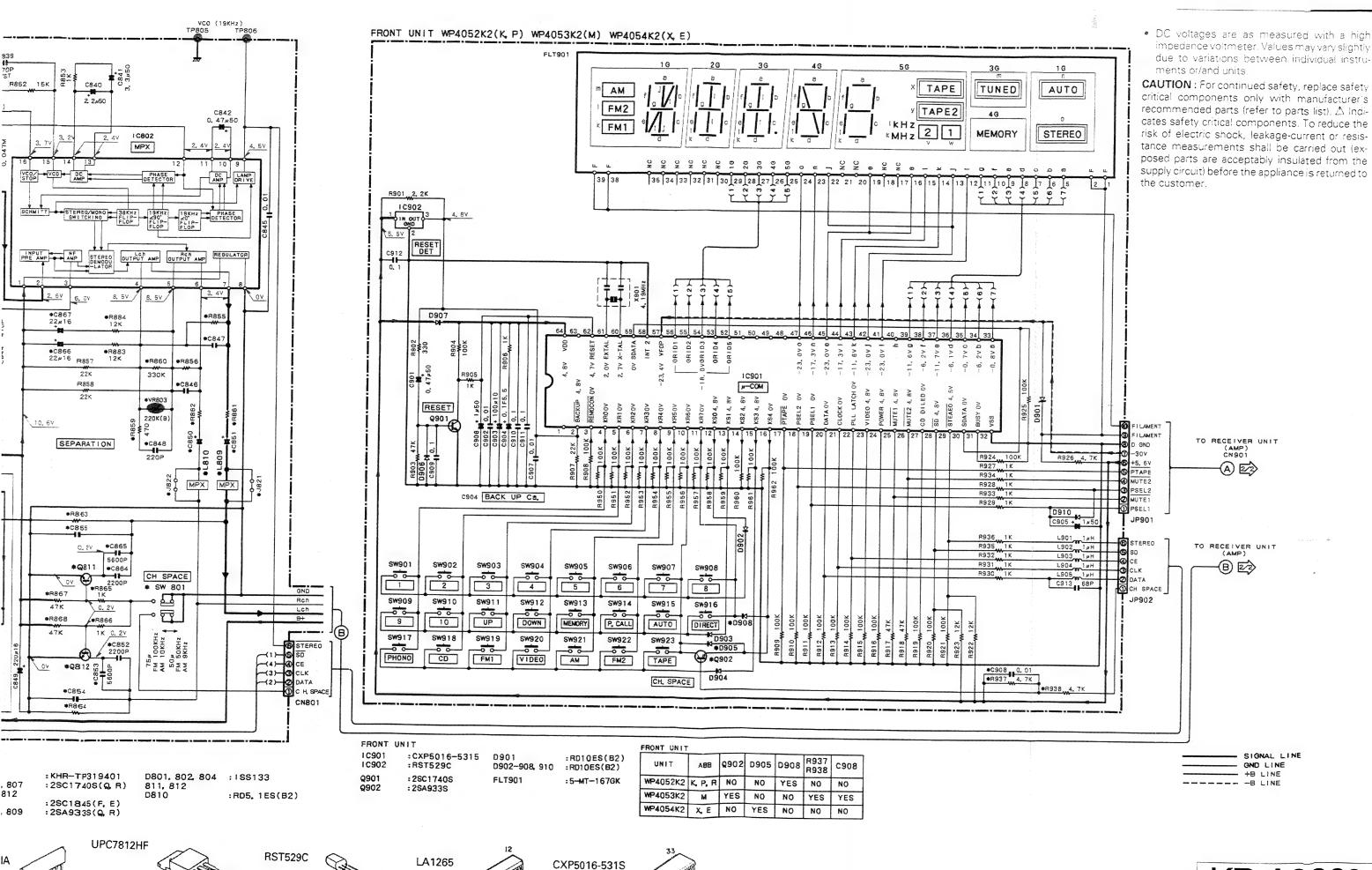


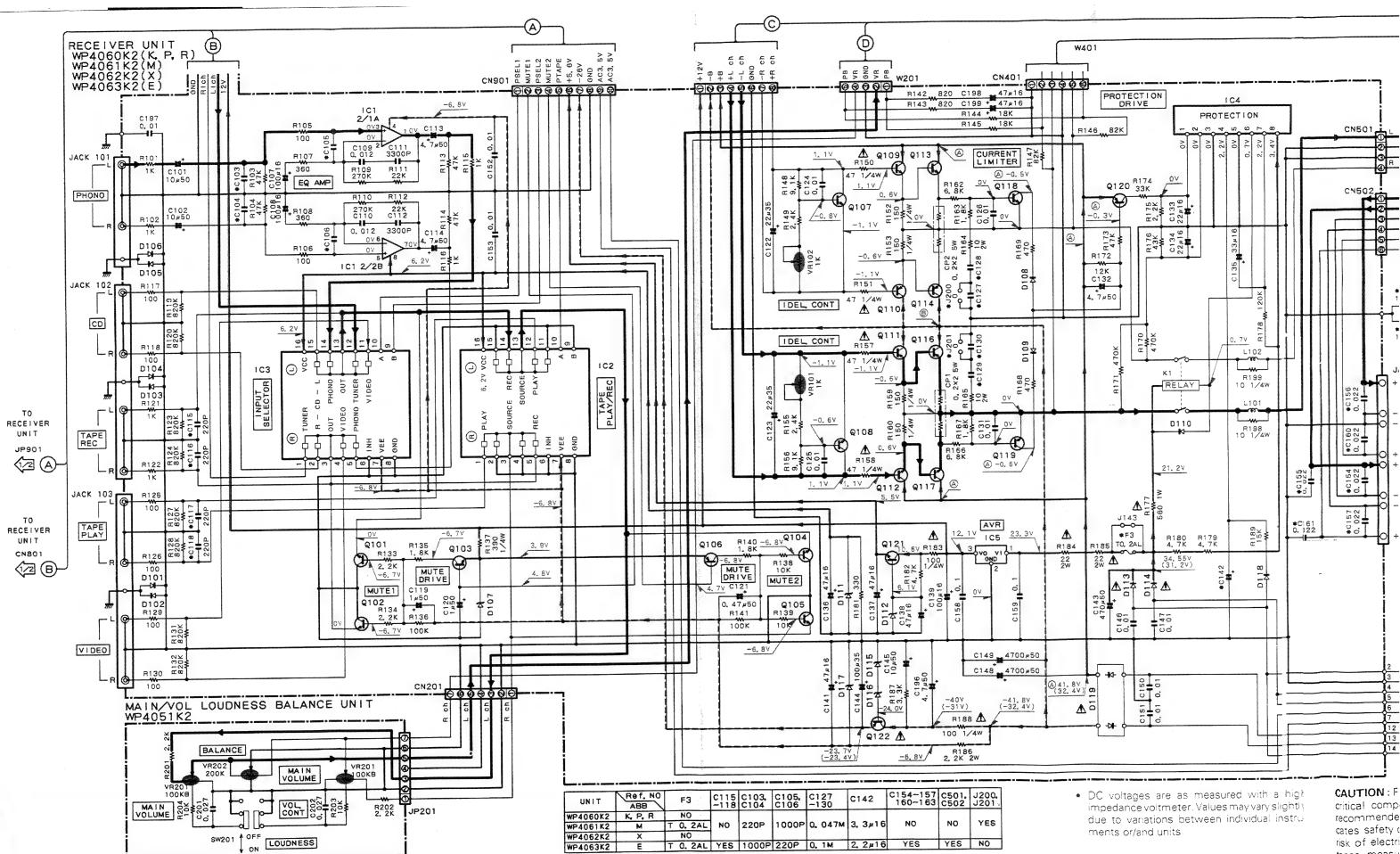


PC BOARD (Component Side View)



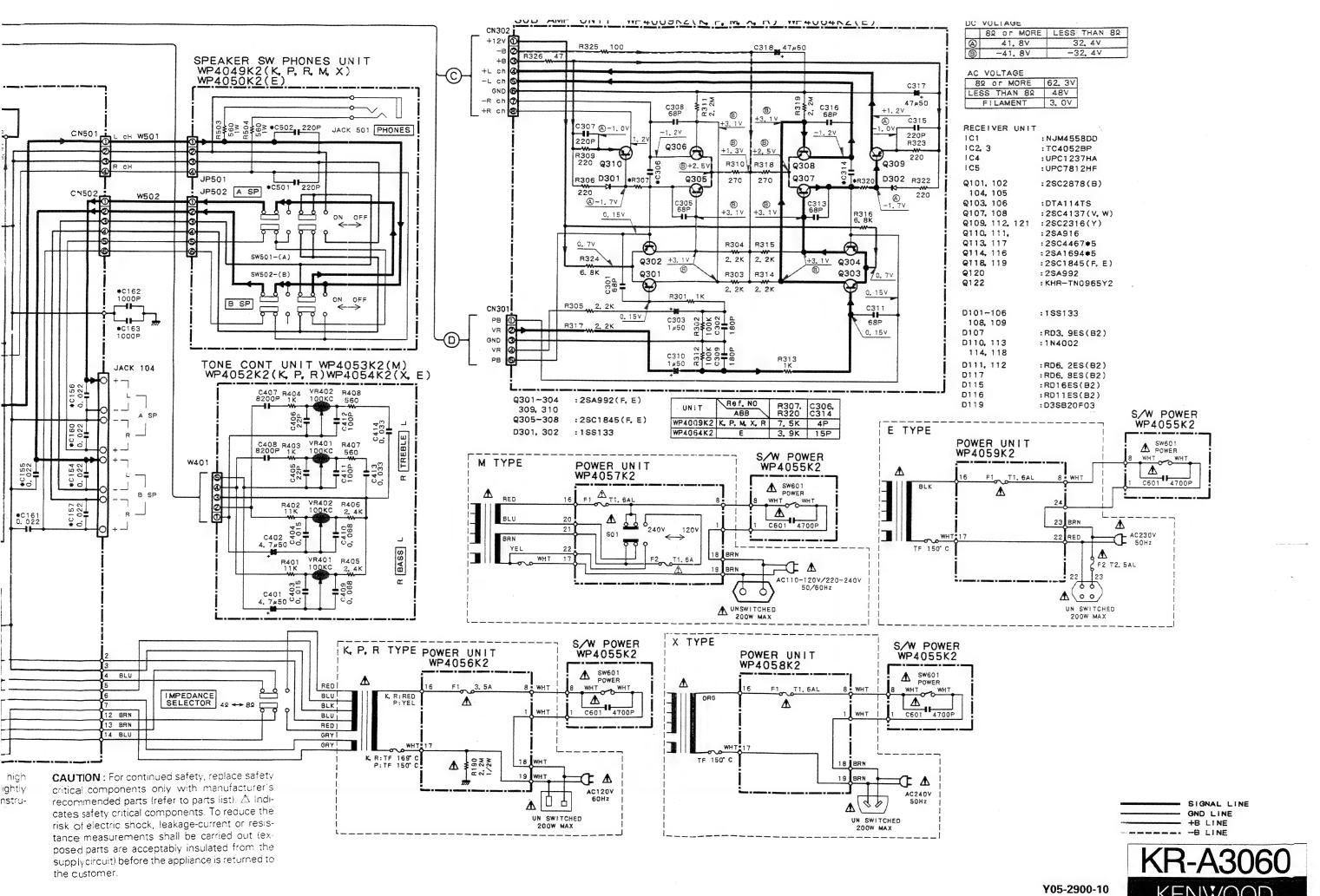






T 0. 2AL YES 1000P 220P 0. 1M 2. 2416 YES YES NO

risk of electr tance measu posed parts supply circuit the custome



KENWOOD

EXPLODED VIEW

AC110 - 120V AC220 - 240V 641 642 FI SPEAKERS A JACKIO4 POWER UNIT PHONO CD REC TAPE PLAY VIDEO JACKIOI JACKIO2 JACKIO3 IN IN REC PLAY IN 601 Dx2 :N09-3094-08 706 ⊕x6 Dx2 @ M3x12 :N09-0333-05 C φ3x8 :N84-3008-46 RECEIVER :N89-3006-46 D φ 3x6(Bi-Tap) PDx2 E φ 3x8(Bi-Tap)BLK :N89-3008-45 F Ø 3x8 :N89-3008-46 :N89-3010-46 G φ 3x10(Bi-Tap) FM DE-EMPHASIS CHANNEL SPACE 50S :N89-4008-46 H φ 4x8(Bi-Tap) S/W POWER FM50KHz AM9KHz SW801 A SPEAKERS B SW501 JACK 501 715 FM300µ FM75µ AM JACK 801,901 623 PDx3 SP.SW PHONES UNIT TUBOI 628 FRONT UNIT Fx2 MAIN/ VOL LOUDNESS BALANCE UNIT 630 625 VOLUME CONTROL VR201 607 LOUDNESS BALANCE 624 SW201 VR202 620x2 620x2 FLT901 SW912 SW911 615x2 629 627 Dx3 Sw901 | Sw902 | Sw903 | Sw904 | Sw905 | Sw906 | Sw907 | Sw908 | Sw909 | Sw915 | Sw913 | Sw916 | Sw914 615x2 SW920 SW923 FW2 SW922 SW921 SW919 SW917 SW918

WP4059 K2	WP4058 K2	WP4057 K2		WP4056 K2		F1, 2, S01	POWER
4054 K2	WP4	WP4053 K2		WP4052 K2		9××	FRONT
		WP4055 K2				6××	S/W POWER
WP4050 K2			WP4049 K2			5××	SP.SW/PHONES
P4054 K2	WP4	WP4053 K2		WP4052 K2		4××	TONE CONTROL
WP4064 K			WP4009 K2			3××	AMP SUB
		WP4051 K2				2××	VOL / LOUDNESS
WP4063K3	WP4062K2	WP4061K1		WP4060K2		1××, 8××	RECEIVER
П	×	3	R	ס	~	electric parts	0.4
		DESTINATION				Ket no of	POR INIT

	Ref. No.	Address	New	Parts No.	Description	Desti- nation mark
l	参照者号	位置	#	部品番号	部 品 名/規 格	仕 向備考
				KR-A	3060(UNIT)	
	601 601 602	1 A 1 A 2 A	*	A01-1974-08 A01-3170-08 A60-0637-08	METALLIC CABINET METALLIC CABINET PANEL FRONT	MXE KPR
	607 - - -	2A	*	B10-2055-08 B46-0092-33 B46-0096-43 B46-0121-33 B46-0122-23	FRONT GLASS WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD	K X P E
	- - -		* * *	B46-0197-00 B60-1583-08 B60-1584-08 B60-1585-08 B60-1586-08	QUESTION CARD INSTRUCTION MANUAL(ENGLISH) INSTRUCTION MANUAL(ENG, FRE) INSTRUCTION MANUAL(E,F,D,N,I) INSTRUCTION MANUAL(ENG,CHI)	K KX P E M
١	-		*	B60-1618-08	INSTRUCTION MANUAL (SPANISH)	R
4	610 611 611 611 612	1 A 1 C 1 C 1 C 1 C		E03-0115-05 E03-0120-08 E03-0121-08 E03-0141-05 E30-0459-05	AC PLUG ADAPTOR AC OUTLET AC OUTLET AC OUTLET AC POWER CORD	M ME KPR X ME
1	612 612 613	1C 1C 1C		E30-0974-05 E30-2714-05 E21-0023-08	AC POWER CORD AC POWER CORD TERMINAL GND	KPR X
I	615 615	2B,2C 2B,2C		G13-0267-08 G13-0275-08	CUSHION (FOOT) CUSHION (FOOT)	KPMXR E
	- - -		*	H10-5348-08 H25-0675-08 H25-0676-04 H50-1030-08 H50-1031-08	POLYSTYRENE FOAMED FIXTURE PROTECTION BAG PROTECTION BAG ITEM CARTON CASE ITEM CARTON CASE	KPXER
l	620 620 621 622	2B,2C 2B,2C 1B 1C	*	J02-1079-08 J02-1107-08 J19-2815-04 J42-0198-08	FOOT FOOT ANTENNA HOLDER AC CORD BUSHING	E KPMXR
	623 624 625 626 627	2A 2B 2A 2A 2A	*	K27-2033-08 K29-4444-08 K29-5952-08 K29-5954-08 K29-5953-08	KNOB(SPEAKERS A,B ON/OFF) KNOB(BALANCE) KNOB(BASS, TREBLE) KNOB(IOKEY) KNOB(VOLUME CONTROL)	
L	628 629 630	1B 2A 2B	* *	K29-5956-08 K29-5999-08 K29-6000-08	KNOB(POWER ON/OFF) KNOB(VIDEO, TAPE, TUNER, PHONO, CD KNOB(LOUDNESS)	
	633 633 633 633 633	1B 1B 1B 1B 1B		L07-0383-08 L07-0385-08 L07-0387-08 L07-0389-08 L07-0567-08	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	P X KR M E
	635 A B C D	1C 1A 1B 1C 1A		\$62-0032-08 N09-3094-08 N09-0333-05 N84-3008-46 N89-3006-46	SLIDE SWITCH IMPEDANCE SEL SCREW TAPPING SCREW TAPTITE SCREW BINDING HEAD TAPTITE SCREW	

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

K:USA P:Canada T:England E:Europe X: Australia M:Other Areas

R:Mexico

G:Germany

★ indicates safety critical components.

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.



Ref. No.	Address	New Parts	Parts No.	Description			Re- mark
参照番号	位 置	₩.	部品番号	部品名/規	格		mari
i	1 A		N89-3008-45	BINDING HEAD TAPTITE	SCREW		
	2A 1B		N89-3008-46	BINDING HEAD TAPTITE			
	18,28		N89-3010-46 N89-4008-46	BINDING HEAD TAPTITE BINDING HEAD TAPTITE			
40	1B		T90-0184-08	LOOP ANTENNA			
42	1B 1A		T90-0182-05 T90-0185-05	FM INDOOR ANTENNA ANTENNA ADAPTOR		Е	
	+		ELECTR	· · · · · · · · · · · · · · · · · · ·			
101,102			CE04KW1H100M CC45FCH1H221J	ELECTRO 10UF CERAMIC 220PF	50WV J	KPMXR	
103,104		1	CK45FB1H102K	CERAMIC 1000PF	K	E	
2105,106 2105,106			CK45FB1H102K CK45FB1H221J	CERAMIC 1000PF CERAMIC 220PF	K J	KPMXR	
						6	
107,108	1		CE04KW1C101M CF92FV1H123J	ELECTRO 100UF MF 0.012UF	16WV J		
111,112		i I	CF92FV1H332J	MF 3300PF	Ĵ		
2113,114 2115-118			CE04KW1H4R7M CC45FCH1H221J	ELECTRO 4.7UF CERAMIC 220PF	50WV J	E	
						6	
119,120			CE04KW1H010M CE04KW1HR47M	ELECTRO 1.0UF ELECTRO 0.47UF	50WV 50WV		
122,123			CE04KW1V220M	ELECTRO 22UF	35WV		
124-126			CK45FF1H103Z CF92FV1H104J	CERAMIC 0.010UF	Z J	8	
127-130			CF92FV1H473J		_		
131		ΙI	CK45FF1H103Z	MF 0.047UF CERAMIC 0.010UF	J Z	KPMXR	
132			CEO4KW1H4R7M	ELECTRO 4.7UF	50WV		
133 134			CE04KW1C220M KHR-PA1611C2	ELECTRO 22UF	16WV 16WV		
135			CE04KW1C330M	ELECTRO 33UF	16WV		
136-138		l	CEO4KW1C470M	ELECTRO 47UF	16WV		
139			CEO4KW1C101M	ELECTRO 100UF	16WV		
141			CE04KW1C470M CE04KW1C2R2M	ELECTRO 47UF ELECTRO 2.2UF	16WV 16WV	Е	
142			CE04KW1C2R2M				
143			CEO4KW1H471M	ELECTRO 2.2UF	16WV 50WV	KPMXR	
144			CEO4KW1V101M	ELECTRO 100UF	35WV		
145 146,147			CE04KW1H100M CK45FB1H103Z	ELECTRO 10UF CERAMIC 0.010UF	50WV Z		
148,149		*	KHR-PE0221G2	ELECTRO 4700UF	50WV		
150,151			CK45FB1H103Z	CERAMIC 0.010UF	Z		
152,153 154-157			CK45FF1H103Z CK45FB1H223Z	CERAMIC 0.010UF	Z Z	E	
158,159	1		CF92FV1H104J	MF 0.10UF	ĵ	"	
160,161			CK45FB1H223Z	CERAMIC 0.022UF	Z	E	
162,163			CK45FB1H102K	CERAMIC 1000PF	K	8	
196]		CE04KW1H4R7M CK45FF1H103Z	ELECTRO 4.7UF CERAMIC 0.010UF	50WV Z		
198,199			CEO4KW1C470M	ELECTRO 47UF	16WV		
201,202			CF92FV1H273J	MF 0.027UF	J		
301))		CC45FSL1H680J	CERAMIC 68PF	J]]	
303	1	1	MOTOHIMX 4033	ELECTRO 1. OUF	SOWV		
305			CC45FSL1H680J	CERAMIC 68PF	j		
306	1	ı I	CC45FCH1H040J	CERAMIC 4.0PF	J	KPMXR	ı

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

6

Ref.	No.	Add	ress	New Parts	Parts No.		Description		Desti- nation	Re-
照後	番号	位		析	部品書号	部	品名/規	格		備者
C306 C307 C308 C309 C310					CC45FCH1H150J CC45FCH1H221J CC45FSL1H680J CC45FCH1H181J CE04KW1H010M	CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO	15PF 220PF 68PF 180PF 1.0UF	J J J 50WV	E	
C311 C313 C314 C314 C315					CC45FSL1H680J CC45FSL1H680J CC45FCH1H040J CC45FCH1H150J CC45FCH1H221J	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	68PF 68PF 4.0PF 15PF 220PF	J J J J	KPMXR E	
C316 C317, C401, C403, C405,	402 404				CC45FSL1H680J CE04KW1H470M CE04KW1H4R7M CF92FV1H153J CC45FCH1H220J	CERAMIC ELECTRO ELECTRO MF CERAMIC	68PF 47UF 4.7UF 0.015UF 22PF	J 50WV 50WV J J		
C407, C409, C411, C413, C501,	410 412 414				CK45FB1H622J CF92FV1H683J CC45FCH1H101J CF92FV1H333J CC45FSL1H221J	CERAMIC MF CERAMIC MF CERAMIC	8200PF 0.068UF 100PF 0.033UF 220PF	J J J	Е	
C601 C801 C802 C803 C804					KHR-QM4726M6 CE04KW1H010M CE04KW1C470M CF92FV1H273J CE04KW1H010M	CERAMIC ELECTRO ELECTRO MF ELECTRO	4700PF 1.0UF 47UF 0.027UF 1.0UF	50WV 16WV J 50WV		
C805 C806, C809 C816 C817	807				CE04KW1C470M CK45FF1H103Z CK45FF1H223Z CK45FF1H223Z CE04KW1H2R2M	ELECTRO CERAMIC CERAMIC CERAMIC ELECTRO	47UF 0.010UF 0.022UF 0.022UF 2.2UF	16WV Z Z Z 50WV		
C818 C819 C820 C821 C822					CB04KW1H4R7M CK45FF1H223Z CE04KW1H3R3M CK45FF1H103Z CK45FF1H223Z	ELECTRO CERAMIC ELECTRO CERAMIC CERAMIC	4.7UF 0.022UF 3.3UF 0.010UF 0.022UF	50WV Z 50WV Z Z		
C823 C824 C825 C826 C827					CE04KW1H100M CK45FF1H223Z CF92FV1H153J CE04KW1H100M CE04KW1HR47M	ELECTRO CERAMIC MF ELECTRO ELECTRO	10UF 0.022UF 0.015UF 10UF 0.47UF	50WV Z J 50WV 50WV		
C828- C831 C832 C833 C834	830				CK45FF1H103Z CC45FCH1H101J CK45FF1H103Z CE04KW1C470M CK45FB1H471K	CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC	0.010UF 100PF 0.010UF 47UF 470PF	Z J Z 16WV K	E	
C835 C836 C837 C838 C839					CC45FSL1H121J CC45FCH1H271J CF92FV1H152J CF92FV1H122J CC93FCH1H471J	CERAMIC CERAMIC MF MF CERAMIC	120PF 270PF 1500PF 1200PF 470PF]]]]	E E E	
C840 C841 C842 C843 C844					CE04KW1H2R2M CE04KW1H3R3M CE04KW1HR47M CF92FV1H473J CK45FB1H471K	ELECTRO ELECTRO ELECTRO MF CERAMIC	2.20F 3.30F 0.470F 0.0470F 470PF	50WV 50WV 50WV J K		

KR-A3060

R:Mexico - G:Germany X:Australia M:Other Areas

A indicates safety critical components.

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

K:USA T:England X: Australia

P:Canada R:Mexico E:Europe **G**:Germany M:Other Areas

Ref. No.

C845

C848

C849 C850.851

C852

C853

C856

C857 C858,859

C863 C864

C865

C868

C890

C901 C902

C903

C904

C907

C908

C913

C905,906

C909-912

JACK101

JACK102

JACK103 JACK104

JACK501

JACK801

JACK901

CF801,802

CF801,802

L101,102

CF803

L801

L802

1.804

L806

44444

F1 F2

F2

F3

1 C

10

10

18

1 C

C846,847

C846,847

C850,851

C854,855

C854,855

C854,855

C860-862

C866,867

Address New

Parts No.

部品書号

CK45FF1H103Z

CK45FB1H102K

CE04KW1C221M

CEO4KW1H010M

CEO4KW1H2R2M

CF92FV1H222J

CF92FV1H562J

CF92FV1H153J

CF92FV1H223J

CF92FV1H472J

CK45FF1H103Z

CEO4KW1C470M

CC45FCH1H220J

CC45FCH1H101J

CK45FF1H103Z

CF92FV1H222J

CF92FV1H562J

CEO4KW1C220M

CC45FCH1H101J

CC45FCH1H220J

CEO4JW1HR47M

CK45FF1H103Z

CEO4KW1A101M

KHR-PX0001N3

CEO4KW1H010M

CK45FF1H103Z

CK45FF1H103Z

CK45FF1H104J

CC45FC1H680J

E70-0035-08

E70-0036-08

E70-0036-08

E70-0004-08

E11-0263-08

E70-0005-08

E70-0023-08

F05-1623-05

F50-0012-08

F05-1623-05

F05-2525-05

F05-2015-05

J13-0075-05

J13-0075-05

L72-0531-05

L72-0570-08

L72-0096-05

L39-1303-08

L40-1091-17

L39-0189-05

L30-0488-05

L30-0439-05

CC45FSL1H151J

CC45FCH1H221J

位 4

Desti- Re-

KPMXR

KPMXR

MX

nation marks

向備考

Description

部 品 名/規 格

0.010UF

150PF

220PF

220UF

1.0UF

2.2UF

2200PF 5600PF

0.015UF

0.022UF

0.010UF

4700PF

47UF

22PF

100PF

0.010UF

2200PF

5600PF

22UF

100PF

R47UF

100UF

0.1F

1.0UF

0.010UF

0.010UF

0.10UF

68PF

PHONO JACK(2P)(PHONO)

PHONE JACK(PHONES)

FUSE(250V T1.6A)

FUSE(250V T1.6A)

FUSE(250V T2.5A)

FUSE(250V TO.2A)

CERAMIC FILTER

CERAMIC FILTER

COMBINATION COIL

SMALL FIXED INDUCTOR

SMALL FIXED INDUCTOR(1UH)

FM IFT(DISCRIMINATOR ADJ.)

FUSE CLIP

FUSE CLIP CERAMIC FILTER

AM IFT

FUSE(125V 3.5A)

PHONO JACK(4P)(CD, TAPE)

PHONO JACK(4P)(TAPE, VIDEO)

LOCK TERMINAL BOARD (SPEAKERS)

LOCK TERMINAL BOARD (ANTENNA)

LOCK TERMINAL BOARD (ANTENNA)

0.010UF

22PF

1000PF

16WV

50WV

50WV

Z.

16WV

16WV

50WV

10WV

5.5WV

SOWV

Z

CERAMIC

CERAMIC

CERAMIC

CERAMIC

ELECTRO

ELECTRO

ELECTRO

CERAMIC

ELECTRO

CERAMIC

CERAMIC

CERAMIC

ELECTRO

CERAMIC

CERAMIC

ELECTRO

CERAMIC

ELECTRO

ELECTRO

ELECTRO

CERAMIC

CERAMIC

CERAMIC

CERAMIC

MF

MF

	Ref. No.	Address	1		Description	Desti-	Re-
	参照番号	位置	Parts 新		部品名/規格	nation	mark
	L809,810 L811 L812 L901-905 X801		7777	L72-0569-08 L33-0375-08 L33-0376-08 L40-1091-17 L77-1122-05	LC FILTER SMALL FIXED INDUCTOR(5.6mH) SMALL FIXED INDUCTOR(6.8mH) SMALL FIXED INDUCTOR(1UH) CRYSTAL RESONATOR(7.2MHz) RESONATOR(4.194MHz)	E	
	CP1 ,2 CP1 ,2 R137 R150,151 R152,153			KHR-RTOR21KO R90-0187-05 RD14GB2E391J RD14GB2E470J RD14GB2E151J	MULTI-COMP 0.22X2 K 3W MULTI-COMP 0.22X2 K 5W FL-PROOF RD 390 J 1/4W FL-PROOF RD 47 J 1/4W FL-PROOF RD 150 J 1/4W	KPR MXE	
Δ	R157,158 R159,160 R164,165 R177 R181			RD14GB2E470J RD14GB2E151J RS14KB3D100J RS14KB3A561J RD14GB2E331J	FL-PROOF RD 47 J 1/4W FL-PROOF RD 150 J 1/4W FL-PROOF RS 10 J 2W FL-PROOF RS 560 J 1W FL-PROOF RD 330 J 1/4W		
Δ Δ	R184,185 R186 R188 R190			R014GB2E101J RS14KB3D220J RS14KB3D222J RD14GB2E101J R92-0173-05	FL-PROOF RD 100 J 1/4W FL-PROOF RS 22 J 2W FL-PROOF RS 2.2K J 2W FL-PROOF RD 100 J 1/4W RC 2.2M M 1/2W	KPR	
	R306 R309 R310 R318 R322,323			RD14GB2E221J RD14GB2E221J RD14GB2E271J RD14GB2E271J RD14GB2E221J	FL-PR00F RD 220 J 1/4W FL-PR00F RD 220 J 1/4W FL-PR00F RD 270 J 1/4W FL-PR00F RD 270 J 1/4W FL-PR00F RD 220 J 1/4W		
	R325 R326 R503,504 R806 R810			RD14GB2E101J RD14GB2E470J RS14KB3A561J RD14GB2E101J RD14GB2E101J	FL-PR00F RD 100 J 1/4W FL-PR00F RD 47 J 1/4W FL-PR00F RD 560 J 1W FL-PR00F RD 100 J 1/4W FL-PR00F RD 100 J 1/4W		
	R836 R851 R869 R933,934 VR101,102			R014GB2E101J R014GB2E820J RD14GB2E221J R014GB2E102J R12-1066-05	FL-PR00F RD 100 J 1/4W FL-PR00F RD 82 J 1/4W FL-PR00F RD 220 J 1/4W FL-PR00F RD 1.0K J 1/4W POTENTIOMETER(1K)(IDLE CURRENT		
	VR201 VR202 VR401,402 VR801 VR802	2B 2B 2A	*	R06-5200-08 R01-5084-08 KHR-VR0750G1 R12-3166-08 R12-1053-05	POTENTIOMETER 100K(VOLUME) POTENTIOMETER 200K(BALANCE) POTENTIOMETER(100K)(BASS, TREB) POTENTIOMETER(33K)(FM T-LEVEL) POTENTIOMETER(4.7K)(VCO)		
	VR803 VR804			R12-5079-08 R12-3071-05	POTENTIOMETER(220K)(SEPARATION POTENTIOMETER(10K)(AM T-LEVEL)	Е	
★	K1 S01 SW201 SW501 SW601	2B 1B 1B	*	\$76-0035-08 \$62-0014-08 \$68-0040-08 \$42-2156-05 \$40-1089-05	MAGNETIC RELAY SLIDE SWITCH(VOLTAGE SELECTOR) PUSH SWITCH(LOUDNESS) PUSH SWITCH(SPEAKERS ON/OFF) PUSH SWITCH(POWER)	М	
	SW801 SW901-923	1C 2A,2B	*	S62-0012-08 KHR-ST0530G1	SLIDE SWITCH(DE-EM., CH. SPACE) TACT SWITCH	м	
	D101-106 D107 D108,109			1SS133 RD3.9ES(B2) 1SS133	DIODE ZENER DIODE DIODE		
	L:Scandinavi	a	K-	USA P:Canada	R:Mexico		

L:Scandinavia	K:USA	P:Canada	R:Mexico
Y:PX(Far East, Hawaii)	T:England	E:Europe	G:Germany
Y:AAFES(Europe)	X:Australia	M:Other Areas	

A indicates safety critical components.

KPMXR

MXE

KPR

ME

ME

KPMXR

L:Scandinavia K:USA P:Canada R:Mexico Y:PX(Far East, Hawaii) T:England E:Europe G:Germany Y:AAFES(Europe) X:Australia M:Other Areas

* New Parts

D110

D115

D116

D117

D118

D804 D810

D901

D905

0908

D910

1C2

1C5

IC801

IC802

IC803

IC901

IC902

Q103

Q106

Q109

9112

9117 Δ

Q120

Q121

Q122 Q301-304

Q801

Q803

9807

Q901

Q118,119

Q305-308

Q309,310

Q808,809

Q811,812

▲ Q113 ▲ Q114

Δ Q116

9101,102

9104,105

Q107,108

9110,111

, 3 IC4

FLT901

A D119

D111.112

D113,114

D301,302

D801,802

D811,812

D902-904

D906,907

2B

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis Teile ohne Parts No. werden nicht geliefert

Parts No.

超品番号

DIODE

DIODE

DIODE

DIODE

DIODE

DIODE DIODE

ZENER

DIODE

DIODE DIODE

DIODE

DIODE

ZENER DIODE

ZENER DIODE

ZENER DIODE

ZENER DIODE

ZENER DIODE

IC(OP AMP X2) IC(4CH MPX/DE-MPX)

IC(POWER AMP)

IC(RESET)

TRANSISTOR TRANSISTOR

TRANSISTOR

TRANSISTOR

TRANSISTOR

TRANSISTOR

TRANSISTOR

TRANSISTOR

TRANSISTOR

TRANSISTOR

TRANSISTOR

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TRANSISTOR TRANSISTOR

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TRANSISTOR

TRANSISTOR

TRANSISTOR

IC(FM/AM TUNER)

DIODE

FLOURESCENT INDICATOR TUBE

IC(VOLTAGE REGULATOR/ +12V)

IC(PLL FREQUENCY SYNTHESIZER)

IC(4BIT MICROPROCESSOR)

1N4002

1N4002

1N4002 D3SBA20F03

1SS133

155133

1SS133

155133

155133

155133 155133

155133 1SS133

RD6.2ES(B2)

RD16ES(B2)

RD11ES(B2)

RD6.8ES(B2)

RD5.1ES(B2)

RD10ES(B2)

5-MT-167GK NJM4558DD

TC4052BP

UPC1237HA

UPC7812HF

LA1265

AN7470

LM7001 CXP5016-531S

RST529C

2SC2878(B)

DTA114TS 2SC2878(B)

DTA114TS 2SC4137(V, W)

2SA916

2SC2316(Y)

25C2316(Y) 2SC4467*5

2SA1694*5

2SA1694*5

2SC4467*5

2SC2316(Y)

2SA992

2SC1845(F,E)

KHR-TN0965Y2

25A992(F,E)

2SC1845(F,E) 25A992(F.E)

KHR-TP319401

2SC1740S(Q,R)

25C1845(F.E)

25C1740S(Q,R)

2SA933S(Q,R)

2SC1740S(Q,R)

25C1740S(Q,R)

Description

部品名/规格

Address New

位 置

	★ New F Parts with Les articl Teile ohn	noi es
	Ref.	N
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	<u> </u>	L	e
Desti- nation 仕 向	Re- marks 備考		
			-
E			
XE KPR			
E M			
1	1		1

* New Parts	
Parts without Parts No. are not supplied.	
Les articles non mentionnes dans le Parts No. ne sont pas four	nis.

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reile ohne Parts N	lo. werden	nicht	geliefert.			<u>u</u>
Ref. No.	Address	New Parts	Parts No.	Description	Desti-	Re-
参照番号	位置	#	部品番号	部 品 名 / 規 格	nation 仕 向	備考
Q902			2SA933S(Q,R)	TRANSISTOR	м	
TU801	2C		W02-1042-05	FM FRONT-END ASSY	KPMXR	
TU801	2C		W02-1146-08	FM FRONT-END ASSY	E	
1						
			0			
	1	1		1	1	1

人R-A3060

X: Australia

SPECIFICATIONS

Audio section

Rated power output

50 watts per channel minimum RMS, both channels driven at 8 $_{\rm \Omega}$, from 30Hz to 20,000Hz with no more than 0.09% total harmonic distortions.(FTC)

Total harmonic distortion(1kHz, 8Ω) 0.03% at 25W

Signal to noise ratio (IHF A)	
PHONO(MM)	76dB(6mV input)
CD, TAPE, VIDEO	100dB
Input sensitivity / impedance	
PHONO(MM)	2.5mV/47kQ
CD, TAPE, VIDEO	
Tone controls	
BASS	± 10dB(at 100 Hz)
TREBLE	± 10dB(at 10 kHz)
Loudness control at -30dB level	+8dB(100 Hz)
FM Tuner section	
Tuning frequency range	87.5MHz~108MHz
Usable sensitivity(IHF)	13.2dBf(1.2μ V at 75Ω)
50 dB quieting sensitivity	
STEREO	41.2dBf(32μ V at 75Ω)

Total harmonic distortion at 1kHz	
MONO	0.6%
STEREO	0.7%
Signal to noise ratio at 65 dBf(IHF)	·
MONO	
STEREO	68 dB
Selectivity(IHF ±400 kHz)	
Stereo separation (IHF at 1kHz)	
Frequency response	
AM Tuner section	
Tuning frequency range	530kHz~1,700kHz
Usable sensitivity	
Total harmonic distortion	
Signal to noise ratio	
selectivity	
General	
Power consumption	1.3A
AC outlet	
SWITCHED	1 : (200W, 1.6 A max.)
Dimensions	
	H : 129mm (5-5/8")
	D : 284mm(13-18")
Weight(net)	5.7kg(20.9 lb)

Note: KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A.(K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 Plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic de Panama

TRIO-KENWOOD U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB., United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418, B-1930 Zaventern. Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sintori, 7/9 20129, Milano, Italy

KENWOOD ESPANA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

P.O Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane # 07-00, KENWOOD Building, Singapore, 1334